

PROJECT DESCRIPTION

GENERAL:

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 151 AND BALTIMORE ST. IN BALTIMORE COUNTY. THE SIGNAL STUCTURE IN THE NORTHWEST QUADRANT WAS HIT BY A MOTOR VEHICLE, CAUSING THE RELOCATION OF THE POLE, REPLACEMENT OF THE ELECTRICAL SERVICE, CHANGE OVER OF TWO SPANS AND THE SIGNAL HEADS ATTACHED. THE STREET LIGHTING ARM AND ALL THE INTERSECTION WIRING WILL BE RE-ROUTED OR REPLACED.

MD 151 RUNS IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION:

THE INTERSECTION WILL CONTINUE TO OPERATE IN A SIX-PHASE, FULL-ACTUATED MODE THERE IS AN EXCLUSIVE LEFT TURN FOR BOTH APPROACHES OF MD 151. BALTIMORE STREET HAS A PUSHBUTTON ACTUATED PEDESTRAIN MOVEMENT CROSSING THE EAST LEG OF MD 151.

SPECIAL NOTES:

1. THE CONTRACTOR SHALL STAGE THE CONSTRUCTION WITH A MINIMUM AMOUNT OF TRAFFIC SIGNAL 'DOWN-TIME'.
2. THE CONTRACTOR SHALL LABLE ALL CABLES AND MR. ED RODENHIZER SHALL BE CONTACTED SEVENTY-TWO HOURS PRIOR TO ANY INTERNAL WIRING TO THE CONTROLLER.

EQUIPMENT LISTS

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM	QUANTITY	DESCRIPTION
9009	1	EA 12" X 30' STRAIN POLE WITH 4 (1 3/4"X 66") ANCHOR BOLTS.
9013	1	EA 20' LIGHTING ARM (CLAMP ON)

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM	QUANTITY	DESCRIPTION
1001	1	EA MAINTENANCE OF TRAFFIC.
2002	1	CY TEST PIT EXCAVATION.
8011	18	EA FURNISH AND INSTALL 12 INCH VEH TRAFFIC SIGNAL HEAD SECTION, BLACKFACED AND POLYCARBONATE.
8014	1	EA FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCCELL.
8015	2	EA FURNISH AND INSTALL 3 INCH WEATHERHEAD.
8019	6	EA FURNISH AND INSTALL 8 INCH VEH TRAFFIC SIGNAL HEAD SECTION, BLACKFACED AND POLCARBONATE.
8020	1	EA FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240V 1PHASE 3 WIRE SYSTEM).
8041	1	EA STRAIN POLE (ANY SIZE).
8042	2	EA INSTALL CONDUIT (UP TO 4 INCHES) BEND IN EXISTING FOUNDATION.
8047	1	EA REMOVE CONCRETE FOUNDATION 12" BELOW GRADE.
8051	15	LF FURNISH AND INSTALL 3 INCH SCH 80 RIGID PVC CONDUIT - TRENCHED.
8053	60	LF FURNISH AND INSTALL 4 INCH SCH 80 RIGID PVC CONDUIT - TRENCHED.
8057	3	CY FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION.
8060	50	LF FURNISH AND INSTALL NO 6 AWG STRANDED BARE COPPER GROUND WIRE.
8067	105	LF FURNISH AND INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
8070	50	LF FURNISH AND INSTALL ELECTRICAL CABLE - (3)THREE-1 CONDUCTOR NO 4 AWG THHN/THWN (TRAFFIC SIGNAL).
8080	1	EA FURNISH AND INSTALL GROUND ROD 3/4 INCH DIA. X 10 FOOT LENGTH.
8084	640	LF FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO 14 AWG).
8085	1830	LF FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO 14 AWG).
8086	75	LF FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO 12 AWG) TYPE "TC".
8089	305	LF FURNISH AND INSTALL STEEL SPAN WIRE 1/4 INCH DIA. (TETHER).
8090	305	LF FURNISH AND INSTALL STEEL SPAN WIRE 3/8 INCH DIA.
8091	20	LF FURNISH AND INSTALL TWO INCH SCH 80 RIDIG PVC CONDUIT - TRENCHED.
NEG	455	LF DISCONNECT AND PULL-BACK PEDESTRIAN SIGNAL CABLE, LOOP, AND CAMERA CABLES.
NEG	200	LF RE-ROUTE THE CABLES 'PULLED-BACK' ALONG NEW SPANS AND RE-CONNECT TO THE CONTROLLER.
NEG	7	EA RELOCATE EXISTING SIGNAL HEADS AND SIGNS.
NEG	1	EA FURNISH, INSTALL AND REMOVE BACK GUY.
NEG	1	EA REMOVE AND DISPOSAL OF ALL EQUIPMENT AND MATERIALS, STRAIN POLE, SERVICE, BACK GUYS AND SIX SIGNAL HEADS, ETC.
NEG	200	LF RE-ROUTE THE CABLES 'PULLED-BACK' TO THE HANDHOLE, UNDERGROUND AND RE-CONNECT TO THE CONTROLLER.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MR. SCOTT RANDALL  
ASSISTANCE DISTRICT ENGINEER-TRAFFIC  
PHONE: 410-321-2781/2885

MR. SUENETTE POPE  
DISTRICT UTILITY ENGINEER  
PHONE: 410-321-2841

MR. STEVE MARCISZEWSKI  
ASSISTANT DISTRICT ENGINEER-MAINTENANCE  
PHONE: 410-321-2761

THE CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD L. DAFF, SR.  
CHIEF, TRAFFIC OPERATION DIVISION  
PHONE: 410-787-7630

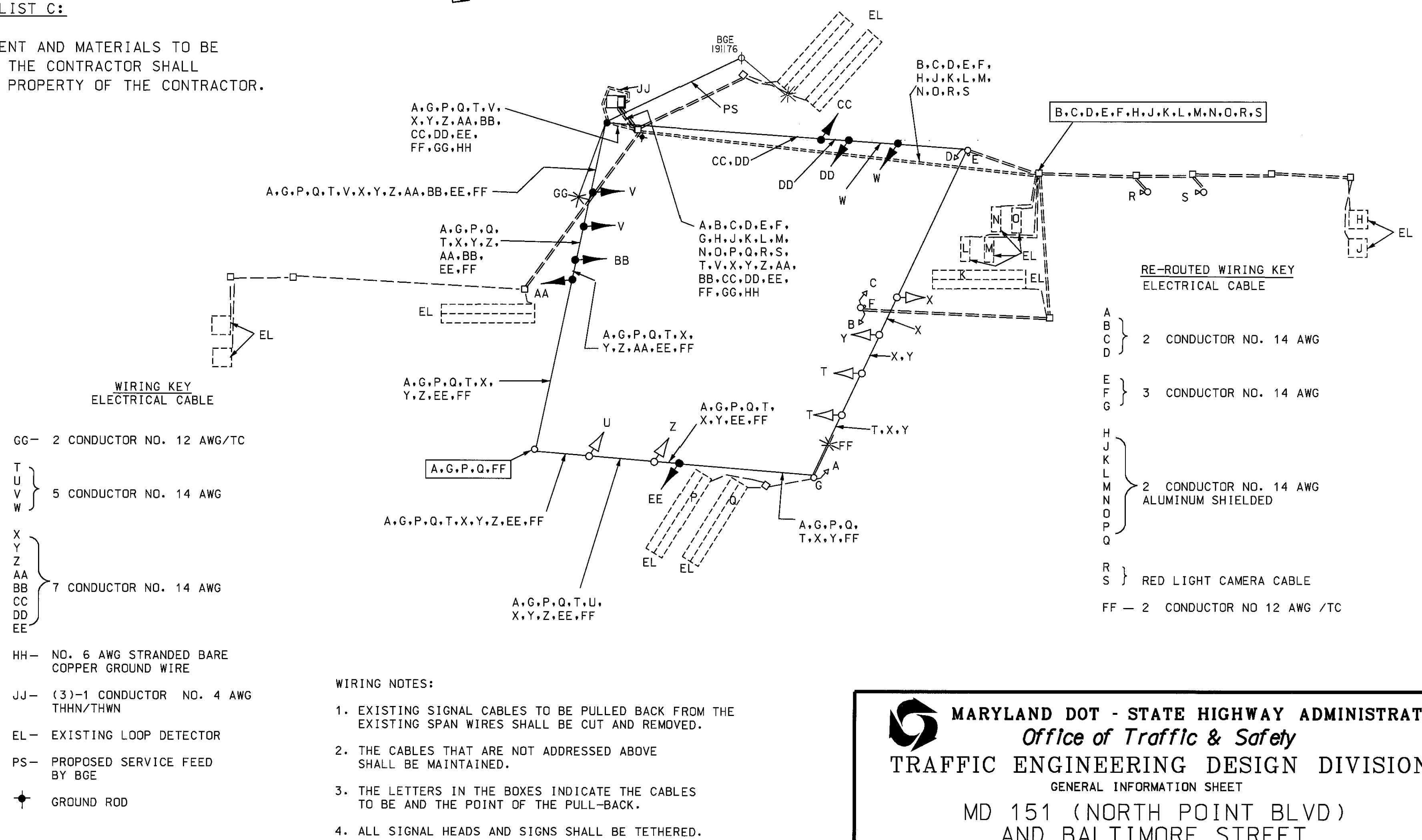
MR. ROBERT SNYDER  
ASST. CHIEF, TRAFFIC OPERATION DIVISION  
PHONE: 410-787-7631

MR. ED RODENHIZER  
CHIEF, SIGNAL OPERATION SECTION  
PHONE: 410-787-7652

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15-18
PHASE 1 & 5	←G-	←G-	R	R	←G-	←G-	R	R	R	R	R	R	R	R	DW
PHASE 1 & 5	MAY CHANGE TO PHASES 1&6 OR 2&5														
PHASE 2 & 5	←G-	←G-	G	G	←R-	←R-	R	R	R	R	R	R	R	R	DW
2 & 5 CHANGE	←Y-	←Y-	G	G	←R-	←R-	R	R	R	R	R	R	R	R	DW
PHASE 1 & 6	←R-	←R-	R	R	←G-	←G-	G	G	R	R	R	R	R	R	DW
1 & 6 CHANGE	←R-	←R-	R	R	←Y-	←Y-	G	G	R	R	R	R	R	R	DW
PHASE 2 & 6	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R	DW
2 & 6 CHANGE	←R-	←R-	Y	Y	←R-	←R-	Y	Y	R	R	R	R	R	R	DW
PHASE 4 & 8	←R-	←R-	R	R	←R-	←R-	R	R	G	G	G	G	G	G	DW
4 & 8 CHANGE	←R-	←R-	R	R	←R-	←R-	R	R	Y	Y	Y	Y	Y	Y	DW
PHASE 4+8 ALT	←R-	←R-	R	R	←R-	←R-	R	R	G	G	G	G	G	G	WK
PED CLEARANCE	←R-	←R-	R	R	←R-	←R-	R	R	G	G	G	G	G	G	FL/DW
4+8ALT CHANGE	←R-	←R-	R	R	←R-	←R-	R	R	Y	Y	Y	Y	Y	Y	DW
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK

WIRING DIAGRAM



WIRING NOTES:

1. EXISTING SIGNAL CABLES TO BE PULLED BACK FROM THE EXISTING SPAN WIRES SHALL BE CUT AND REMOVED.
2. THE CABLES THAT ARE NOT ADDRESSED ABOVE SHALL BE MAINTAINED.
3. THE LETTERS IN THE BOXES INDICATE THE CABLES TO BE AND THE POINT OF THE PULL-BACK.
4. ALL SIGNAL HEADS AND SIGNS SHALL BE TETHERED.



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET

MD 151 (NORTH POINT BLVD)  
AND BALTIMORE STREET

DRAWN BY: E. MILESKY	F.A.P. NO. S.H.A. NO. 2180320243	TS NO. 920 E	SHEET NO. 2 OF 2
CHECKED BY: R. MILSTEAD	COUNTY: BALTIMORE	T.I.M.S. NO. F440	
SCALE: 1"= 20'	LOG MILE: 03015107.28		
DATE: 8/26/02			